



# BSc (Hons) / BSc Animal Management, Health and Welfare (Top-up)

<b>UCAS code</b>	BSc: D74N BSc (Hons): D470
<b>Institution code</b>	H12
<b>Duration</b>	1 year (full-time)
<b>Start date</b>	September 2021
<b>Location</b>	<a href="#">Harper Adams University campus*</a>

## The course

This modular course offers FdSc/HND Animal Welfare and Management and HND Animal Care (or equivalent) students the opportunity to upgrade their qualification to an honours degree. It is linked closely to the established BSc (Hons) Animal Health and Welfare.

Mature students who have been working in the industry since completing the HND course, and are now looking to upgrade their qualification, are particularly welcome. The key areas to be studied will include Animal Behaviour and Welfare, Integrated Health Management, Honours Research Project, and Veterinary Epidemiology.

In order to widen and increase career options there will also be optional specialist modules. There are numerous career options open to graduates of this course. There are employment opportunities in animal health with companies associated with the development, manufacture and marketing of animal health products.

Nutritional products and special diet formulations are being developed, aimed at animals with health problems, and a knowledge of both animal health and nutrition equips the Animal Management, Health and Welfare graduate for careers in this area.

The concerns over animal welfare and food safety have led to new Quality Assurance employment opportunities, with schemes being developed by the RSPCA, farming industry and supermarkets to ensure animal health, welfare and food safety from conception to consumption. The pet care industry is undergoing major reorganisation in the sale and care of companion animals, with opportunities for people with the right skills. There will always be careers available in animal welfare and in the management of animals. The Animal Management, Health and Welfare degree provides essential skills in these and other related areas.

## Entry requirements

- Top-up applicants must have achieved an average of 55% in their Foundation degree to apply for BSc non-honours and 60% to apply for BSc Honours.
- Applicants must have completed a full year's placement as part of their course of study or two years of full-time relevant employment after their course.

## A-level entry requirements

- **Entry requirements for 2021 entry are not currently available. Please contact Admissions for advice**

## **Teaching and learning**

\* During the Covid-19 Pandemic the University is delivering blended learning. Government guidance is being constantly reviewed to establish the learning events which can be delivered face to face. Please refer to our [frequently asked questions](#) for further details.

**Click module title to see full description.**

Note: BSc (Hons) Year 2 is July-December only, and is a continuation of the Honours Research Project module started in year 1.

# What will I study?

## BSc (Hons) Top-up

Year 1	
Honours Research Project (HRPROJC17)	30
Integrated Health Management (A6017C17)	15
Applied Companion Animal Health, Welfare and Behaviour (A6007C17)	15
Animal Improvement and Bioethics (A6005C17)	15
Research Methods (Animals) (A5011C17)	15
Options	
Animal Disease Science (A5009C17)	15
Advances in Farm Animal Health, Welfare and Behaviour (A6003C17)	15
Advances in Equine Science (A6002C17)	15

### Honours Research Project

<b>Year of study</b>	1
<b>Code</b>	HRPROJC17
<b>Credits</b>	30
<b>Core/option</b>	Core

To qualify for an honours degree a student must demonstrate the capacity for sustained, independent and high quality work. One of the most important vehicles for the demonstration of this capacity, and for developing the necessary skills, is the individual Honours Research Project. Each student will therefore be required to complete such a project under the general supervision of a member of staff and present the results in a project report and in a *viva voce* exam, with two tutors, which will also test to a high level, skills of communication and rational argument. This major exercise represents one-quarter of the final year studies and will therefore have an important influence on the classification of award.

### Integrated Health Management

<b>Year of study</b>	1
<b>Code</b>	A6017C17
<b>Credits</b>	15
<b>Core/option</b>	Core
<b>Module contact</b>	<a href="#">Dr Claire Kershaw</a>

Often factors affecting animal health, disease, welfare and production such as nutrition, reproduction and epidemiology are taught independently. Within this module, students will learn the importance of considering how these individual factors influence one another. This module integrates these factors to develop student's ability to assess the management status of various animal management systems.

The application of knowledge and intellectual skills gained from the module and from experience within the animal industry will be required to formulate appropriate programmes for the maintenance of the health and welfare of the animals and also of the health and safety of staff members and the public.

## **Applied Companion Animal Health, Welfare and Behaviour**

**Year of study** 1  
**Code** A6007C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Mr Stephen Baugh](#)

An integrated understanding of companion animal health, welfare and behaviour is essential for the development of companion animal management programmes that ensure optimum welfare.

This module is designed to provide a detailed knowledge of the factors involved in the aetiology and development of common diseases seen in companion animals (cats, dogs, small mammals, birds and reptiles) and develops the skills required to recognise signs of ill health in animals and to develop disease control and prevention strategies.

The behaviour of companion animal species will be considered, how health can influence behaviour, why certain behaviours may be suppressed in domestic settings and how this may lead to the development of pathology and inappropriate or abnormal behaviours. The prevention and control of behavioural problems will also be considered.

Aspects of animal physiology, nutrition, health and general husbandry introduced in earlier modules will form an essential background for this module.

## **Animal Improvement and Bioethics**

**Year of study** 1  
**Code** A6005C17  
**Credits** 15  
**Core/option** Core

With the rapid developments in animal breeding technologies an understanding of the processes involved and their application to modern livestock production is required. This module will provide the student with the opportunity to apply the genetic principles underlying animal breeding to a number of species of animals and systems of livestock production. To undertake this, students will require an understanding of the systems used in livestock production and other roles to which animals are currently put and may be used for in the future in the context of the socio-economic environment in which they operate. In addition, the relationship between animals and humans is explored and consideration is given to the ethical implications of the various roles of animals in society and the manipulation of animals by biotechnology.

## **Research Methods (Animals)**

**Year of study** 1  
**Code** A5011C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Dr Stephen Mansbridge](#)

The ability to collect, analyse and interpret data appropriately is a core skill for all those involved in modern animal science. In view of this, research skills are important to enable the critical appraisal of published research, and for the development of appropriate study designs to fulfil research objectives. This module forms part of the Professional Scholarship Programme (PSP) and is taken by all BSc and MSci students studying animal programs. The skills gained within this module are essential for the completion of the level 6 / 7 research projects in the final year. Students will learn valuable skills covering critical literature reviews, the importance of research designs and protocols in the context of quality assurance schemes, data collection / analysis and presentation of information. By carrying out statistical analysis using appropriate

software during tutorials, the students will develop their ICT skills and further their understanding of the role of statistics in the research process.

## **Animal Disease Science**

**Year of study** 1  
**Code** A5009C17  
**Credits** 15  
**Core/option** Option

This module aims to develop the student's knowledge of disease causing agents, teach them how disease affects the body, how the body responds, and how testing can be used to diagnose disease and disease-causing agents.

The module builds on the knowledge gained in Principles of Animal Health, and assumes a good working knowledge of normal anatomy and physiology.

## **Advances in Farm Animal Health, Welfare and Behaviour**

**Year of study** 1  
**Code** A6003C17  
**Credits** 15  
**Core/option** Option

This module will deepen students' understanding of farm animal welfare and its links to animal health, behaviour and disease control. With the increasing public interest in the welfare of farm animals, an understanding of different indicators and how these may show an animal's welfare status is required by those involved in any aspect of animal production. The welfare of animals is important not only during their housing and management but in response to handling, transport and slaughter; this module will focus on the welfare of farm animals in all of these situations. There is also growing public concern for human food safety and the importance of animal health; graduates in all fields of animal science need to understand efficient diagnostic techniques and disease surveillance and possibilities for the future in this field. Understanding the production of effective animal medicines is also necessary.

## **Advances in Equine Science**

**Year of study** 1  
**Code** A6002C17  
**Credits** 15  
**Core/option** Option  
**Module contact** [Carole Brizuela](#)

Knowledge of the scientific principles that underlie recent advances in areas relating to equine health, nutrition and reproduction is increasingly important in an industry that has advanced considerably over the last decade. This module will build on the concepts learned in Equine Science and allow the student to develop a deeper understanding of issues affecting the equine industry in these three areas. Considerable independent study will permit students to develop the ability to discriminate, evaluate and analyse information from a variety of sources.

- Evaluate current issues affecting equine health, nutrition and reproduction.
- Critically comment on future and potential developments within equine reproduction.
- Apply advances in animal disease and nutritional science to the management of equine animals.

## **BSc Top-up**

<b>Year 1</b>	
Degree Review Project (DRPROJC17)	15
Integrated Health Management (A6017C17)	15
Farm Animal Health (A5005C17)	15
Applied Companion Animal Health, Welfare and Behaviour (A6007C17)	15
<b>Options</b>	
Animal Disease Science (A5009C17)	15
Farm Animal Science (A5016C17)	15
Advances in Farm Animal Health, Welfare and Behaviour (A6003C17)	15

## **Degree Review Project**

**Year of study** 1  
**Code** DRPROJC17  
**Credits** 15  
**Core/option** Core

Although Ordinary Degree students are not required to engage in the research based major projects completed by honours degree candidates, it is necessary that they display the ability, at Honours level, to learn independently and display the skills required for lifelong learning; to demonstrate awareness of the provisional nature of facts and principles and to marshal evidence and apply it in a balanced way in an argument and to draw soundly based conclusions. The development of these skills is the purpose of this module.

## **Integrated Health Management**

**Year of study** 1  
**Code** A6017C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Dr Claire Kershaw](#)

Often factors affecting animal health, disease, welfare and production such as nutrition, reproduction and epidemiology are taught independently. Within this module, students will learn the importance of considering how these individual factors influence one another. This module integrates these factors to develop student's ability to assess the management status of various animal management systems.

The application of knowledge and intellectual skills gained from the module and from experience within the animal industry will be required to formulate appropriate programmes for the maintenance of the health and welfare of the animals and also of the health and safety of staff members and the public.

## **Farm Animal Health**

**Year of study** 1  
**Code** A5005C17  
**Credits** 15  
**Core/option** Core

The public are now more aware of farming practices and animal welfare issues and with growing concerns about antimicrobial resistance it is paramount that those involved with farmed livestock have a very good knowledge of both the maintenance of good health, through disease management, and of high standards of welfare which are fundamental to the success of efficient and acceptable animal production practices. This module will aim to provide students with an understanding of the importance of disease prevention, rather than treatment, and the ability to develop integrated disease control programmes to maximise livestock health and welfare.

## **Applied Companion Animal Health, Welfare and Behaviour**

**Year of study** 1  
**Code** A6007C17  
**Credits** 15  
**Core/option** Core  
**Module contact** [Mr Stephen Baugh](#)

An integrated understanding of companion animal health, welfare and behaviour is essential for the development of companion animal management programmes that ensure optimum welfare.

This module is designed to provide a detailed knowledge of the factors involved in the aetiology and development of common diseases seen in companion animals (cats, dogs, small mammals, birds and reptiles) and develops the skills required to recognise signs of ill health in animals and to develop disease control and prevention strategies.

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Aspects of animal physiology, nutrition, health and general husbandry introduced in earlier modules will form an essential background for this module.

## **Animal Disease Science**

**Year of study** 1  
**Code** A5009C17  
**Credits** 15  
**Core/option** Option

This module aims to develop the student's knowledge of disease causing agents, teach them how disease affects the body, how the body responds, and how testing can be used to diagnose disease and disease-causing agents.

The module builds on the knowledge gained in Principles of Animal Health, and assumes a good working knowledge of normal anatomy and physiology.

## **Farm Animal Science**

**Year of study** 1  
**Code** A5016C17  
**Credits** 15  
**Core/option** Option  
**Module contact** [Dr Emma Bleach](#)

The ability of farmers to manipulate the outputs of animal production systems and consequently their productivity, environmental impact and profitability depends on the successful application of animal sciences. This module will build on the first year agricultural /animal science and animal production modules and will cover the essential principles of animal reproduction, lactation, breeding, nutrition, growth and health & welfare in a number of farm animal species and a range of livestock production systems.

## **Advances in Farm Animal Health, Welfare and Behaviour**

**Year of study** 1  
**Code** A6003C17  
**Credits** 15  
**Core/option** Option

This module will deepen students' understanding of farm animal welfare and its links to animal health, behaviour and disease control. With the increasing public interest in the welfare of farm animals, an understanding of different indicators and how these may show an animal's welfare status is required by those involved in any aspect of animal production. The welfare of animals is important not only during their housing and management but in response to handling, transport and slaughter; this module will focus on the welfare of farm animals in all of these situations. There is also growing public concern for human food safety and the importance of animal health; graduates in all fields of animal science need to understand efficient diagnostic techniques and disease surveillance and possibilities for the future in this field. Understanding the production of effective animal medicines is also necessary.